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P A T E N T

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )

Monz et al. )

Application No.: )

Filed: Herewith )

For: PROCESS AND SYSTEM FOR GENERATING OR VISUALIZING SETS OF  
CONTROL DATA )



**BOX PATENT APPLICATION**

Commissioner for Patents  
Washington, D.C. 20231

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as Express Mail (No. EV 046686885 US) addressed to BOX PATENT APPLICATION, Commissioner for Patents, Washington, D.C. 20231 on December 14, 2001.

By: Carol Prentice

Carol Prentice

**INFORMATION DISCLOSURE STATEMENT**

Dear Sir:

In accordance with 37 C.F.R. §1.56, Applicants wish to call the attention of the Examiner to the following references:

**U.S. PATENTS:**

<u>Patent No.</u>	<u>Patentee</u>	<u>Date of Issue</u>
4,912,625	Glatfelter	Mar. 1990
5,046,022	Conway et al.	Sept. 1991
5,051,912	Johanson et al.	Sept. 1991
5,272,642	Suzuki	Dec. 1993
5,315,523	Fujita et al.	May 1994
5,315,525	Blüthgen et al.	May 1994
5,444,636	Yoshida et al.	Aug. 1995
5,610,842	Seki et al.	Mar. 1997
5,691,909	Frey et al.	Nov. 1997

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Monz et al.  
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FOREIGN PATENT DOCUMENTS:

<u>Country</u>	<u>No.</u>	<u>Date of Publication</u>
United Kingdom	2 117 929	Oct. 1983
EPO	EP 0 642 066	Mar. 1995
EPO	EP 0 642 067	Mar. 1995

PUBLICATIONS:

Storr, A. et al., "Einsatz objektorientierter Strukturen zur Programmierung von NC-Mehrschlittendrehmaschinen," wt-Produktion und Management, 84 (1994), pages 26-39.

"Einfach und werkstattnah programmieren," TR Technische Rundschau, Heft 37 1993, pages 70-71.

Monz et al., "Neue Systeme fur werkstattorientierte Programmierverfahren," wt Werkstattstechnik, 77 (1987), pages 575-581.

The references listed above are relevant because they were cited in Applicant's parent application, U.S. application no. 09/149,571.

Copies of the above-listed references are enclosed, together with a completed form PTO-1449.

Also enclosed are copies of the Search Report dated June 23, 2000 of Applicants' counterpart European patent application no. EP 98 11 5669, and the July 13, 1999 Office Action in Applicants' counterpart German patent application no. 197 39 559.7, together with an English translation thereof.

## **Information Disclosure Statement**

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The article in wt Produktion und Management 84 (1994), pages 26-30 discloses a method which is improved with respect to previously known programming methods, because the method is based on a sequentially set up source program allowing input of the program via tool carrier specific editors. During programming, parallel processes can be optimized. This benefit is realized due to the consequent use of a network of object structures in connection with processor, post processor and simulation functions, which allow the necessary bi-directional flow of information between the source and NC program.

The article in TR Technische Rundschau, Heft 37, 1993 refers TR Technische to a simple NC programming system with a graphical tool database. The database not only stores the respective tools, but also stores geometrical, technological or structural features. In addition, the NC text is automatically generated.

The article in wt Werkstattstechnik 77 (1987), pages 575-581 refers to an interactive programming system which can be used in a machine tool for a simple programming of the machine tool, for teaching or programming a group of machines, or in preparing the program for a workpiece. Programming with the interactive programming system is performed in two phases.

In a first programming phase, which is independent of the machine, the definition and geometry of the raw part and the machined part and information about the material of the part to be machined are entered. The processes to be performed as well as the respective tools are also defined. In the second programming phase, the NC program is established taking into

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consideration the actual status of the machine tool, for providing the machine tool with the necessary tool configuration.

A graphical process simulation enables a complete presentation of all process steps in real time for one slide, two slides and complete manufacturing of a machine tool. This option also enables a check to be made for potential collisions.

Consideration of these references by the Examiner is respectfully requested.

Respectfully submitted,



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**Date: December 14, 2001**  
**ATTORNEY DOCKET NO.: HOE-466.1**

FORM PTO-1449

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SERIAL NO.:

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

APPLICANT(S): Monz et al.

FILING DATE: Herewith

GROUP:

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA	4,912,625	Mar. 1990	Glatfelter			
	AB	5,046,022	Sept. 1991	Conway et al.			
	AC	5,051,912	Sept. 1991	Johanson et al.			
	AD	5,272,642	Dec. 1993	Suzuki			
	AE	5,315,523	May 1994	Fujita et al.			
	AF	5,315,525	May 1994	Blüthgen et al.			
	AG	5,444,636	Aug. 1995	Yoshida et al.			
	AH	5,610,842	Mar. 1997	Seki et al.			
	AI	5,691,909	Nov. 1997	Frey et al.			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANS- LATION YES NO
	AJ	2 117 929	Oct. 1983	United Kingdom			
	AK	EP 0 642 066	Mar. 1995	EPO			
	AL	EP 0 642 067	Mar. 1995	EPO			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	AM	Storr, A. et al., "Einsatz objektorientierter Strukturen zur Programmierung von NC-Mehrschlittendrehmaschinen," <u>wt-Produktion und Management</u> , 84 (1994), pages 26-39.
	AN	"Einfach und werkstattnah programmieren," <u>TR Technische Rundschau</u> , Heft 37 1993, pages 70-71.
	AO	Monz et al., "Neue Systeme für werkstattorientierte Programmierverfahren," <u>wt Werkstattstechnik</u> , 77 (1987), pages 575-581.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

12/14/01  
10/23389  
U.S. PTO